

Title (en)  
AN APPARATUS AND A METHOD FOR DECODING AN ENCODED AUDIO SIGNAL

Title (de)  
VORRICHTUNG UND VERFAHREN ZUR DEKODIERUNG EINES KODIERTEN TONSIGNALS

Title (fr)  
APPAREIL ET PROCÉDÉ DE DÉCODAGE D UN SIGNAL AUDIO ENCODÉ

Publication  
**EP 2304723 B1 20121024 (EN)**

Application  
**EP 09776810 A 20090623**

Priority  

- EP 2009004522 W 20090623
- US 7984108 P 20080711
- US 10382008 P 20081008

Abstract (en)  
[origin: WO2010003545A1] An apparatus for decoding (100) an encoded audio signal (102). A first decoder (110a) decodes a first portion (104a) in accordance with a first decoding algorithm for a first time portion of the encoded signal (102) to obtain a first decoded signal (114a). A second decoder (110b) decodes a second portion (104b) in accordance with a second decoding algorithm for a second time portion of the encoded signal (102) to obtain a second decoded signal (114b). A BWE module (130) has a controllable crossover frequency (fx) and is configured for performing a bandwidth extension algorithm using the first decoded signal (114a) and BWE parameters (106) for the first portion (104a), and for performing a bandwidth extension algorithm using the second decoded signal (114b) and the bandwidth extension parameters (106) for the second portion (104b). A controller (140) controls the crossover frequency (fx) for the BWE module (130) in accordance with a coding mode information (108).

IPC 8 full level  
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CPC (source: EP KR US)  
**G10L 19/02** (2013.01 - KR); **G10L 19/04** (2013.01 - KR); **G10L 19/18** (2013.01 - KR); **G10L 19/20** (2013.01 - EP US);  
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**G10L 19/0212** (2013.01 - EP US); **G10L 19/022** (2013.01 - EP US)

Citation (examination)  

- WO 2008031458 A1 20080320 - ERICSSON TELEFON AB L M [SE], et al
- US 6134518 A 20001017 - COHEN GILAD [IL], et al

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RU2648632C2; US9911423B2

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**WO 2010003545 A1 20100114**; AR 072481 A1 20100901; AU 2009267531 A1 20100114; AU 2009267531 B2 20130110;  
BR PI0910511 A2 20200818; BR PI0910511 B1 20210601; CA 2730232 A1 20100117; CA 2730232 C 20151201; CN 102089814 A 20110608;  
CN 102089814 B 20121121; CO 6341674 A2 20111121; EP 2304723 A1 20110406; EP 2304723 B1 20121024; EP 2352147 A2 20110803;  
EP 2352147 A3 20120530; EP 2352147 B1 20130904; EP 2352147 B9 20140423; ES 2396927 T3 20130301; ES 2439549 T3 20140123;  
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PL 2352147 T3 20140228; RU 2011104000 A 20120820; RU 2483366 C2 20130527; TW 201009808 A 20100301; TW I435316 B 20140421;  
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CN 200980126705 A 20090623; CO 11001549 A 20110107; EP 09776810 A 20090623; EP 11162255 A 20090623; ES 09776810 T 20090623;  
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TW 98122550 A 20090703; US 201113004272 A 20110111; ZA 201100087 A 20110104